



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ716	Date of Submission:	4/28/05
Lexicon Contract Name:	DNA304	Mutation Type:	☒ Standard Knock out
LexVision Name:	ENZ769N1		☐ Conditional
Reference accessions:	NM_133779	Is this gene X-linked?	No

Required Materials: ☒ pKOS clone DNA(s) __pKOS/7_____
☒ Target Vector DNA __DNA304 FTV1_____
☒ Targeted ES Cell DNA __1H1_____
☒ Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	DNA304-18/19	DNA304-22/23
Restriction Enzyme for Genomic Digest:	EcoRI	Apal
Predicted Wild-type Band (kb):	19.0 kb	10.8 kb
Predicted Mutant Band (kb):	10.8 kb	13.6 kb
Probe Size:	505 bp	421 bp

PCR Strategies:

For standard knockouts, give wildtype and mutant-specific strategies

For conditionals, give 5' loxP and cre-excision strategies

Wild type-specific (absent in targeted allele)		Mutation-specific product (absent in wt)	
5' Primer Name:	DNA304-3	5' Primer Name:	Neo3a
3' Primer Name:	DNA304-4	3' Primer Name:	DNA304-14
Predicted Wild-type Band (bp):	537 bp	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	292 bp

5' loxP strategy		Distinguish Cre-excised and wt	
5' Primer Name:		5' Primer Name:	
3' Primer Name:		3' Primer Name:	
Predicted Wild-type Band (bp):		Predicted Wild-type Band (bp):	
Predicted mutant band (bp)		Predicted mutant band (bp)	

Primer sequences:**Southern probes**

DNA304-18 5' – CTAAGCCAACACTCCTCAGG
 DNA304-19 5' – CACAATCTTAGCATTGTGAGC
 DNA304-23 5' – CAGATGGGCTACAGAGAAGC
 DNA304-24 5' – CTTGTAAGTGTGACCACACC

PCR Genotyping

DNA304-3 5' – CTACATGCATTTCTCGAGGC
 DNA304-4 5' – CAATCCATAGGAACTGAGTGG
 DNA304-14 5' – AGACAGCAGTCTTAGGAAGC
 Neo3a 5' – GCAGCGCATCGCCTTCTATC

Genomic Sequence Deleted:

GGGAGGCGGAAGCGGCCGAGGTATGGCGGCTGCCATGCCGCTCGGTTTGCCGTTGCGGTTACTGGTGCTGTTGCTGGTGGGACGGGGCTGCTGTGGC
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AAACCTCTGGGACTGGCCATGTTGAGATAG

Genomic Locus: (The deleted sequence represents nt 11009 – 13405 in the sequence below. KOS7 used to generate the TV represents nt 7623 – 18663 in the sequence below.)

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[illegible]

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Selection Cassette:

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Targeted Locus:

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[illegible]

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[illegible]

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